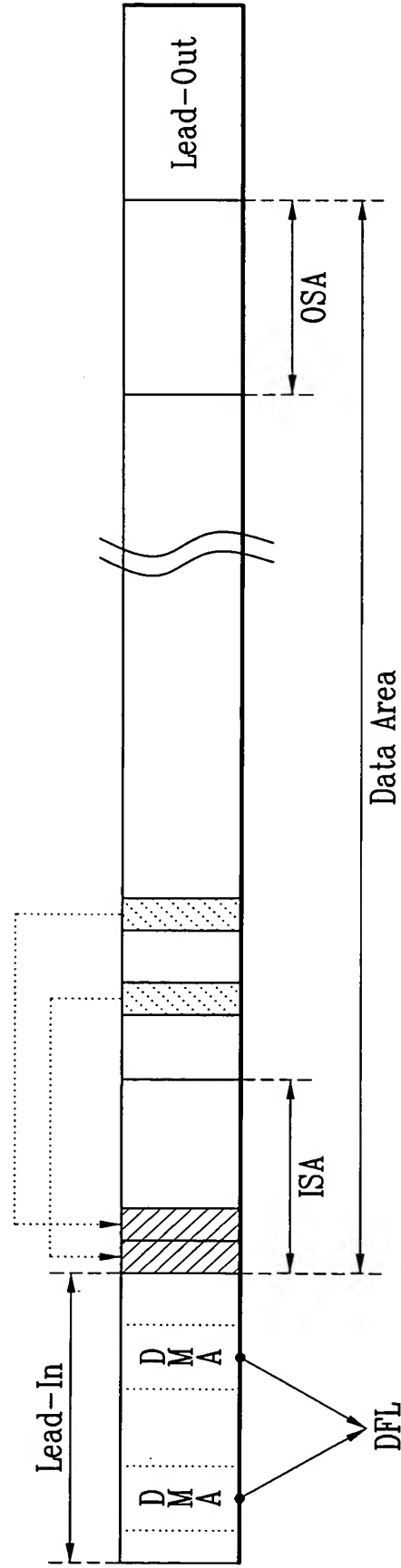


FIG. 1
Related Art



- ISA : Inner Spare Area
- OSA : Outer Spare Area
- DMA : Defect management Area
- DFL : Defect List

FIG. 2

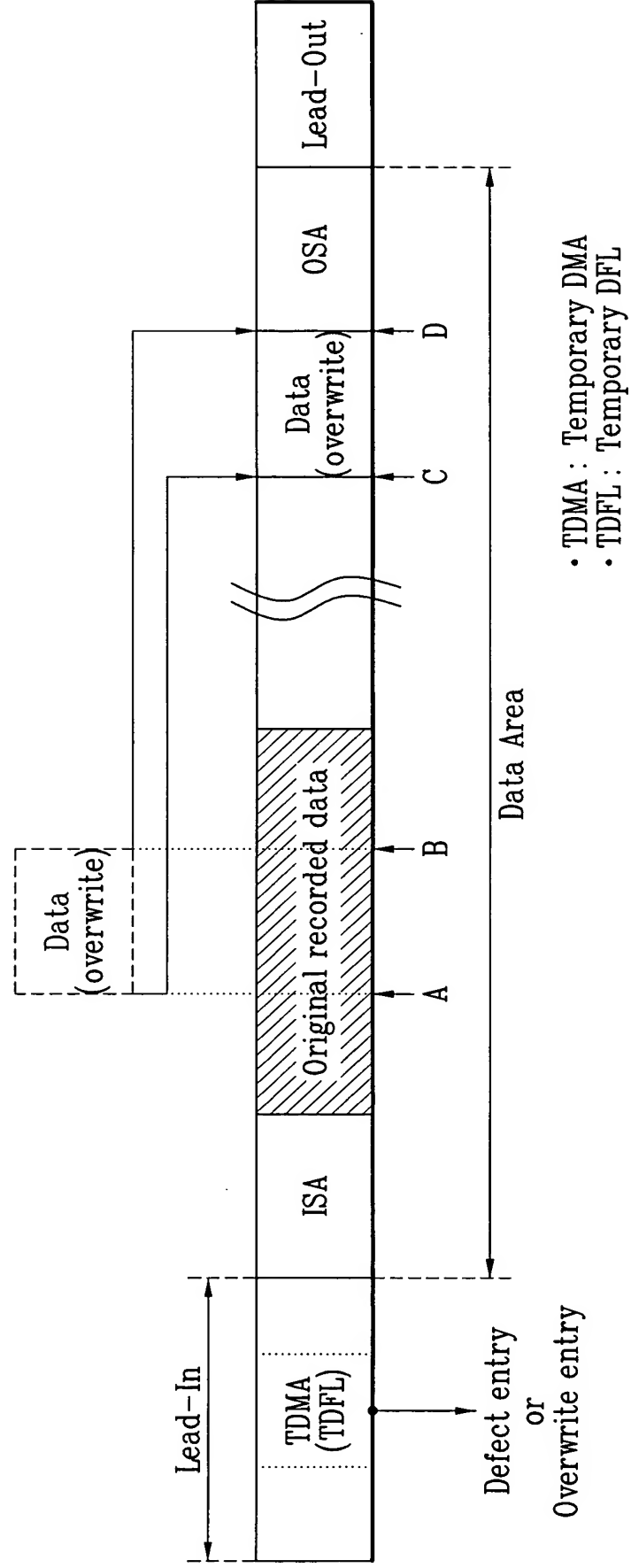


FIG. 3

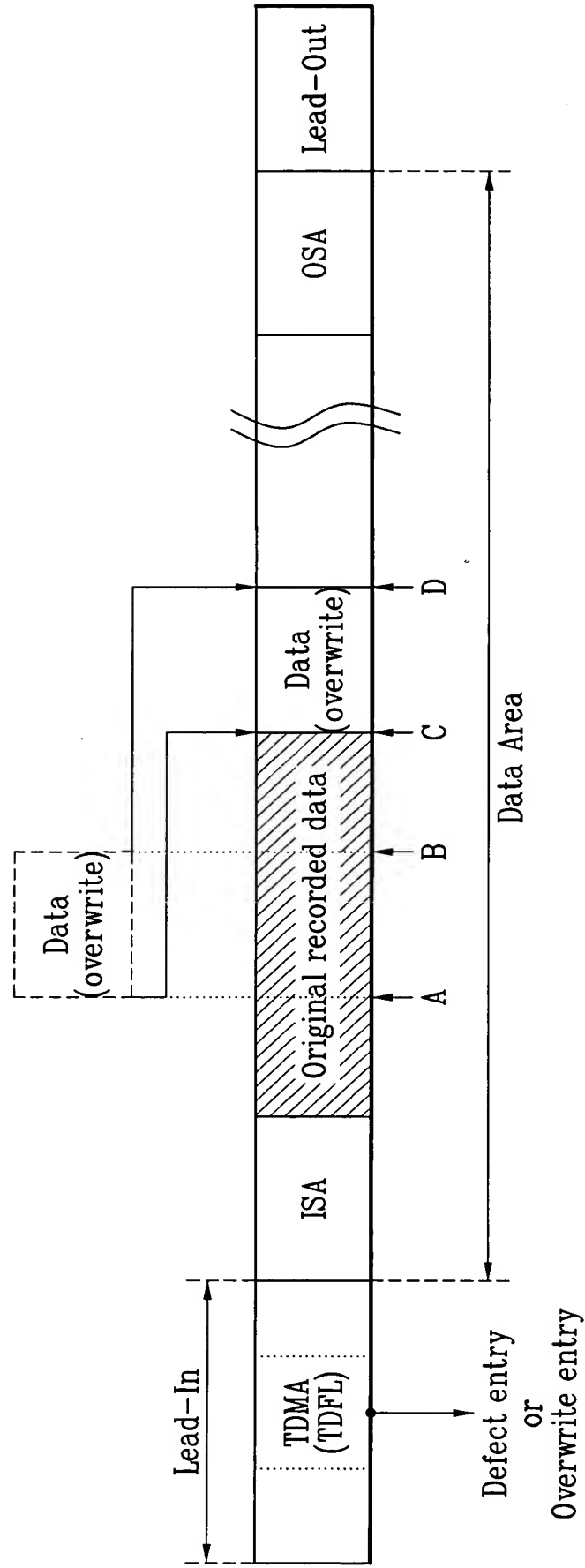


FIG. 4A

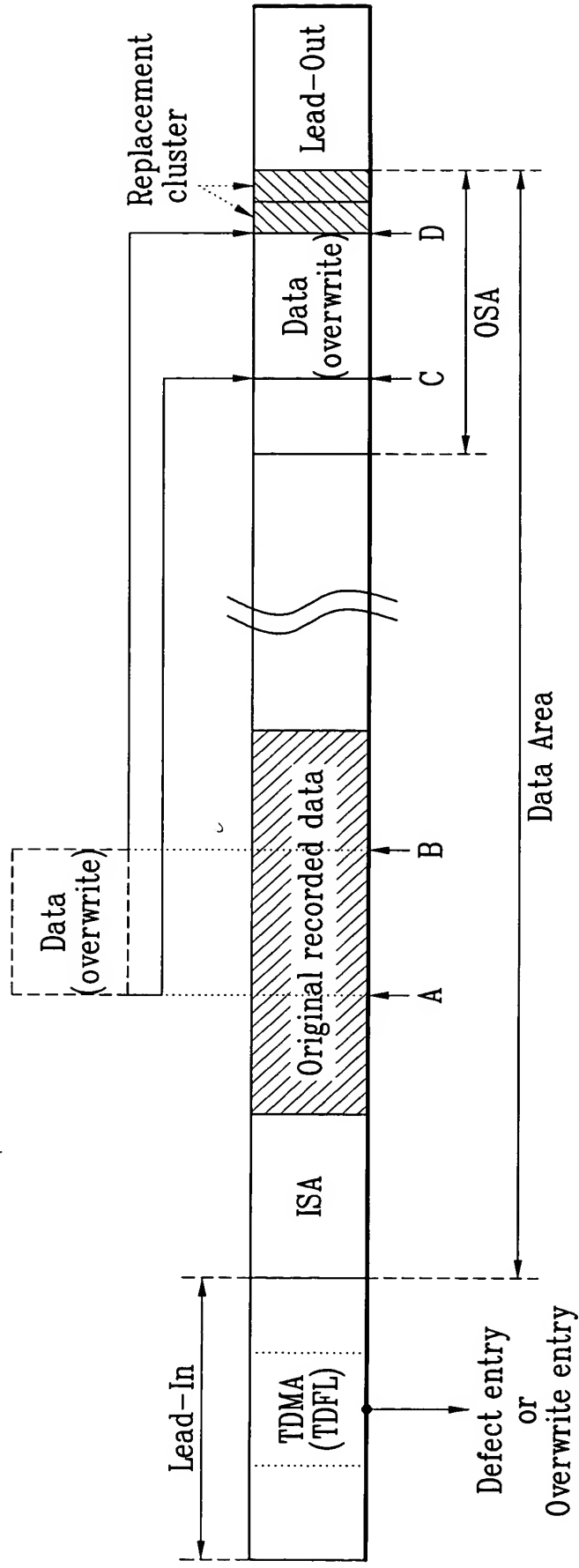


FIG. 4B

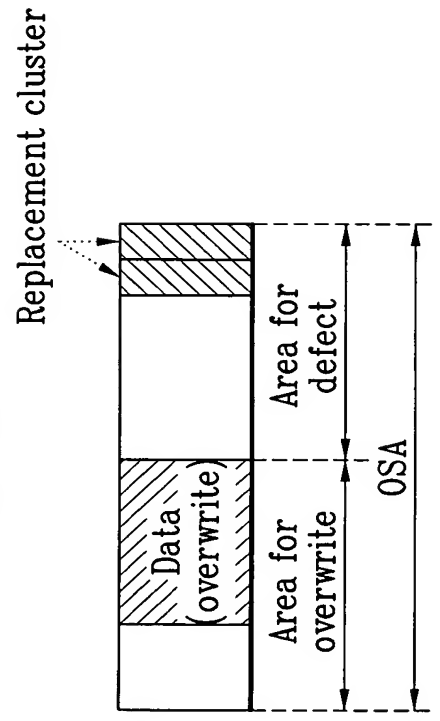


FIG. 5

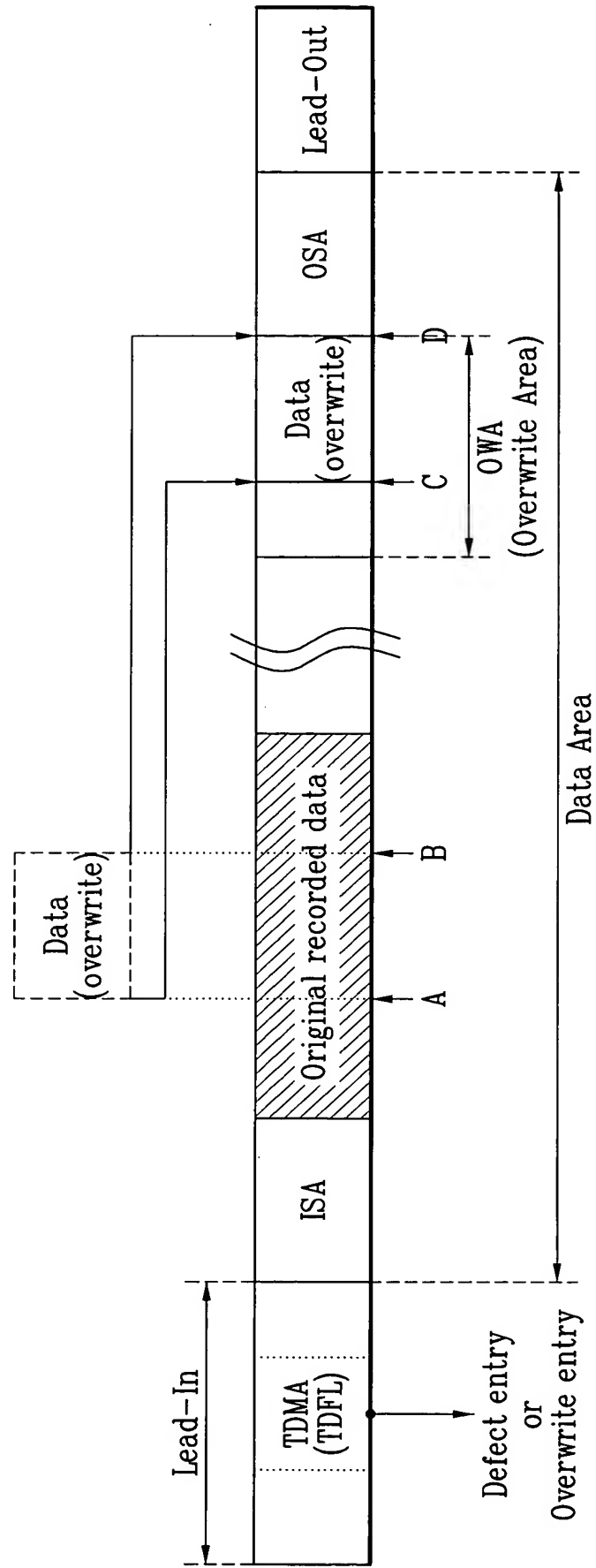


FIG. 6

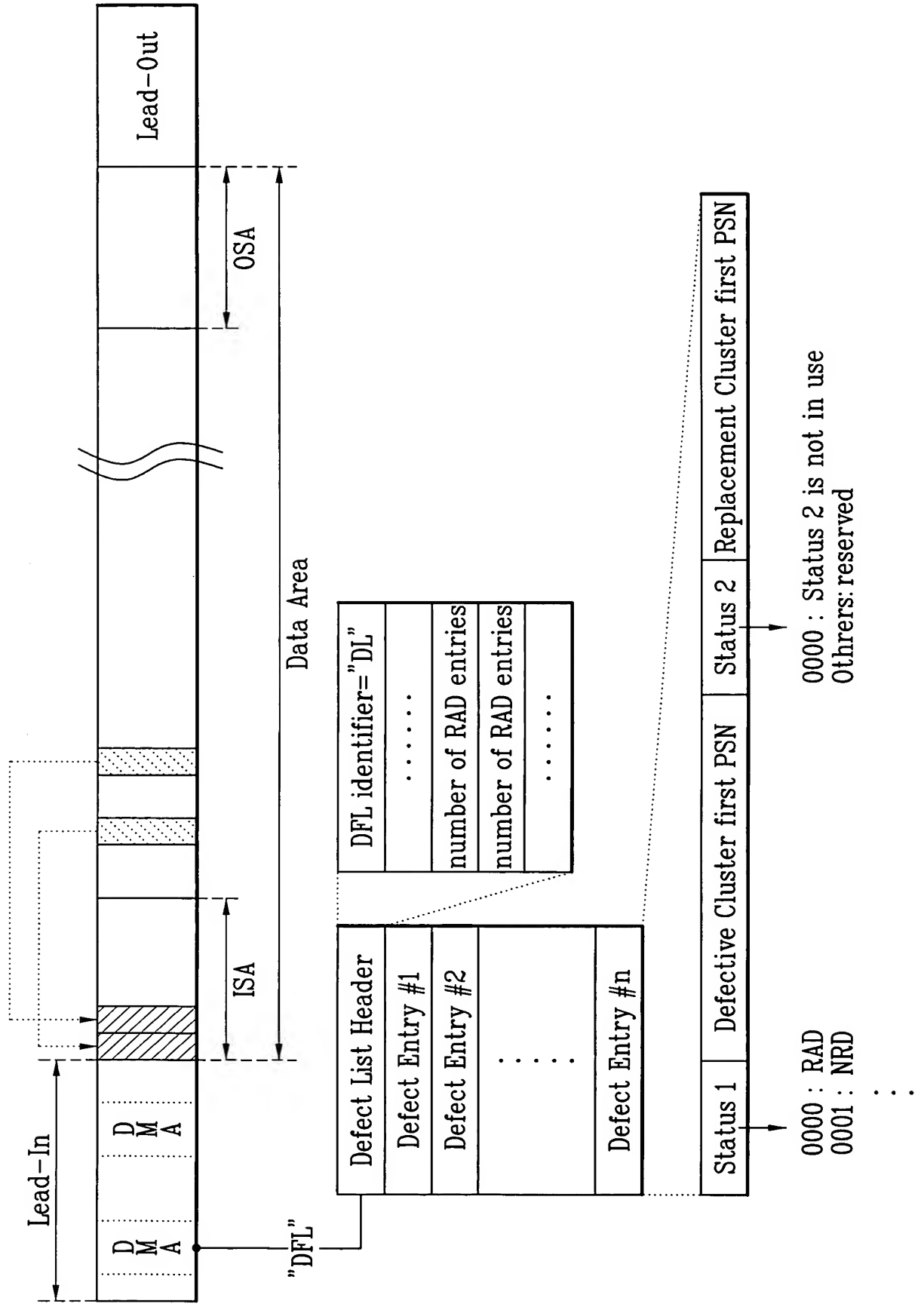
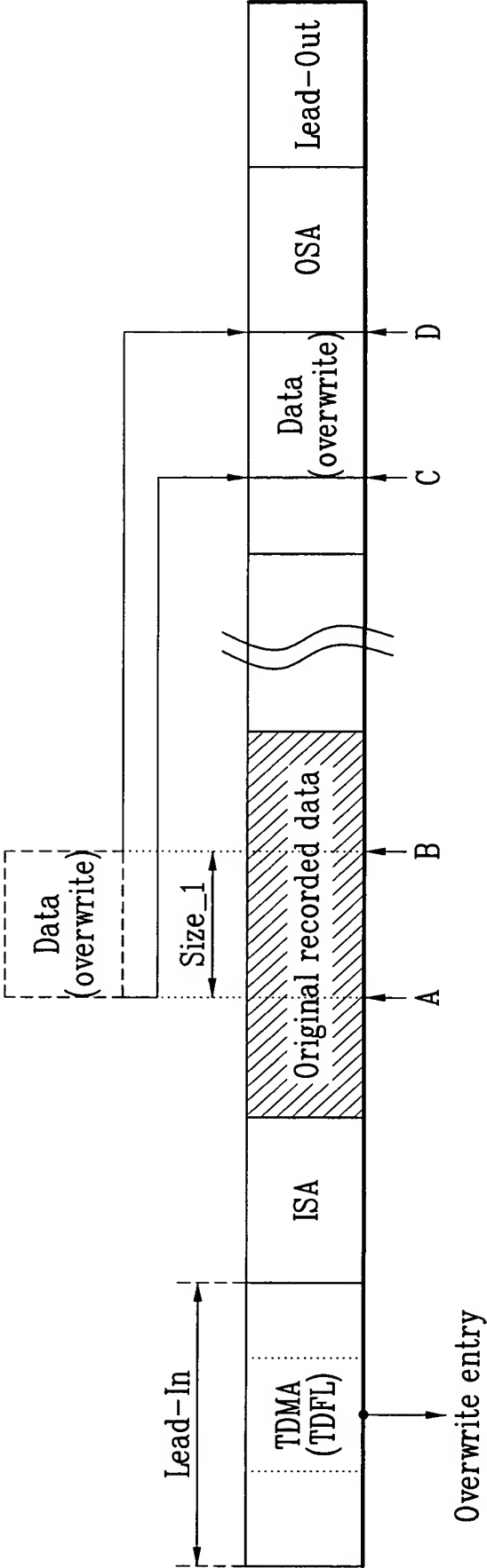


FIG. 7



Case 1)

1100	A address	Size_1	C address
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 \Rightarrow if $\text{Size_1} < 16$ clusters

Case 2)

1100	A address	0000	C address
1100	Size_1	0000	Size_1

 \Rightarrow if $\text{Size_1} \geq 16$ clusters

FIG. 8A

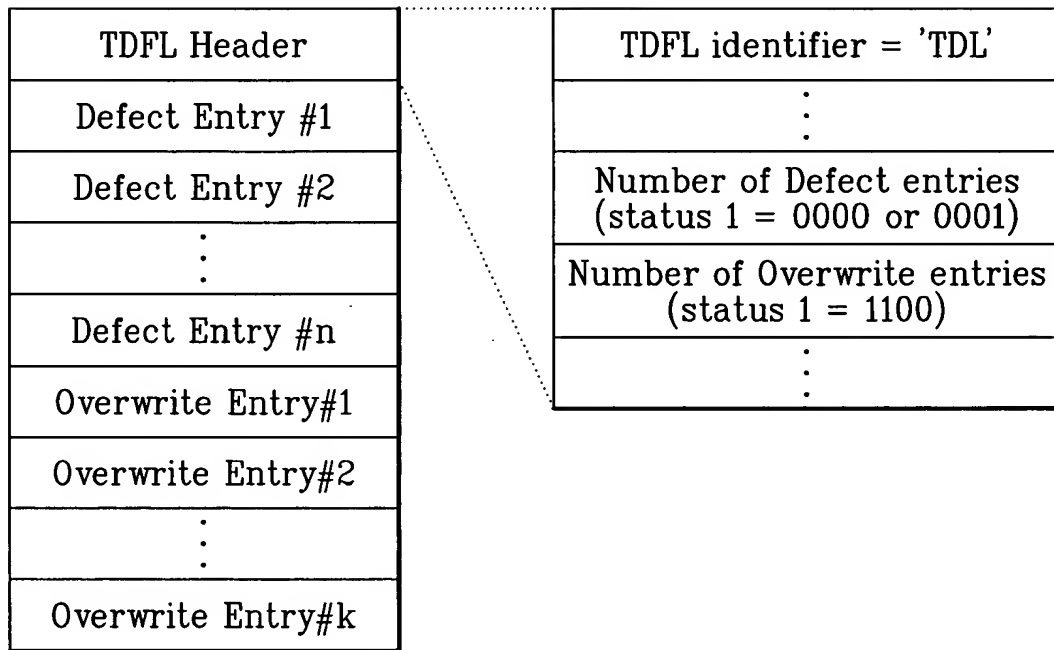
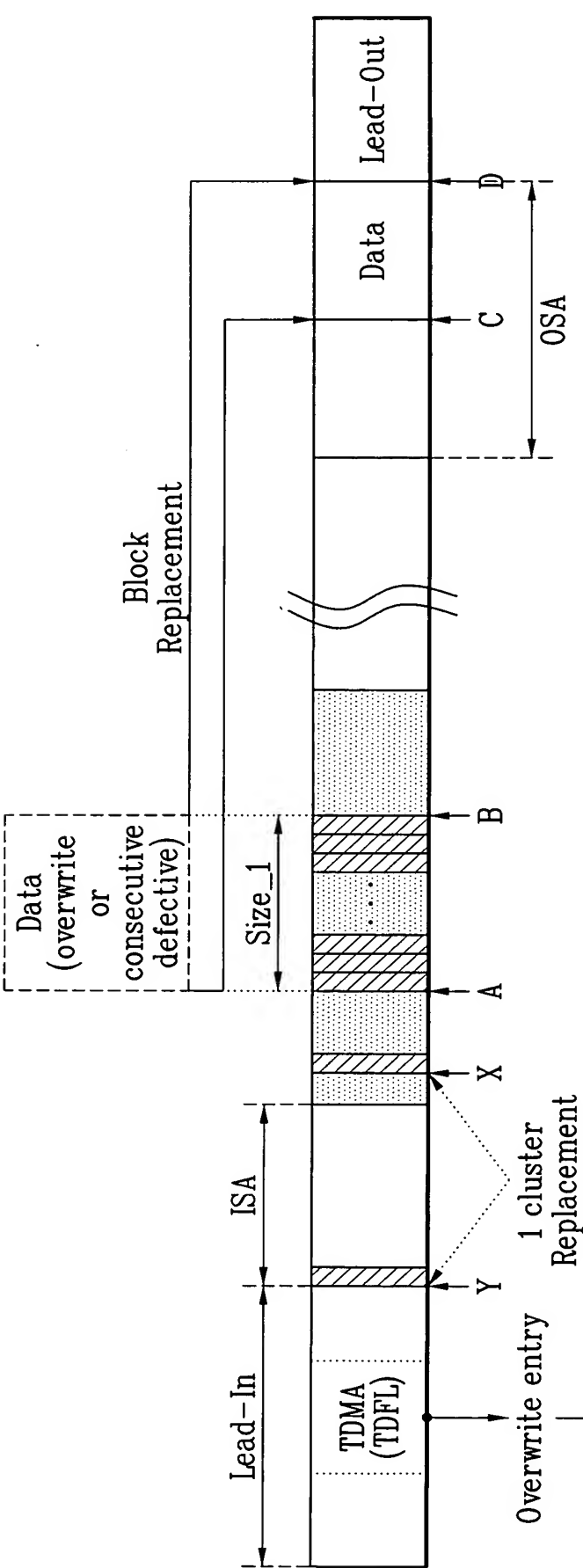


FIG. 8B

Entry type	Status 1	Status 2
Defect entry	0000	0000
	0001	0000
Overwrite entry	1100	0000
	1100	others

FIG. 9



Status 1	Defective cluster first PSN	Status 2	Replacement cluster first PSN
0000	X address	0000	Y address
0000	A address (original start address)	0001	C address (Replacement start address)
0000	Size_1	1001	Size_1

⇨ 1 cluster replacement

⇨ Block replacement

FIG. 10

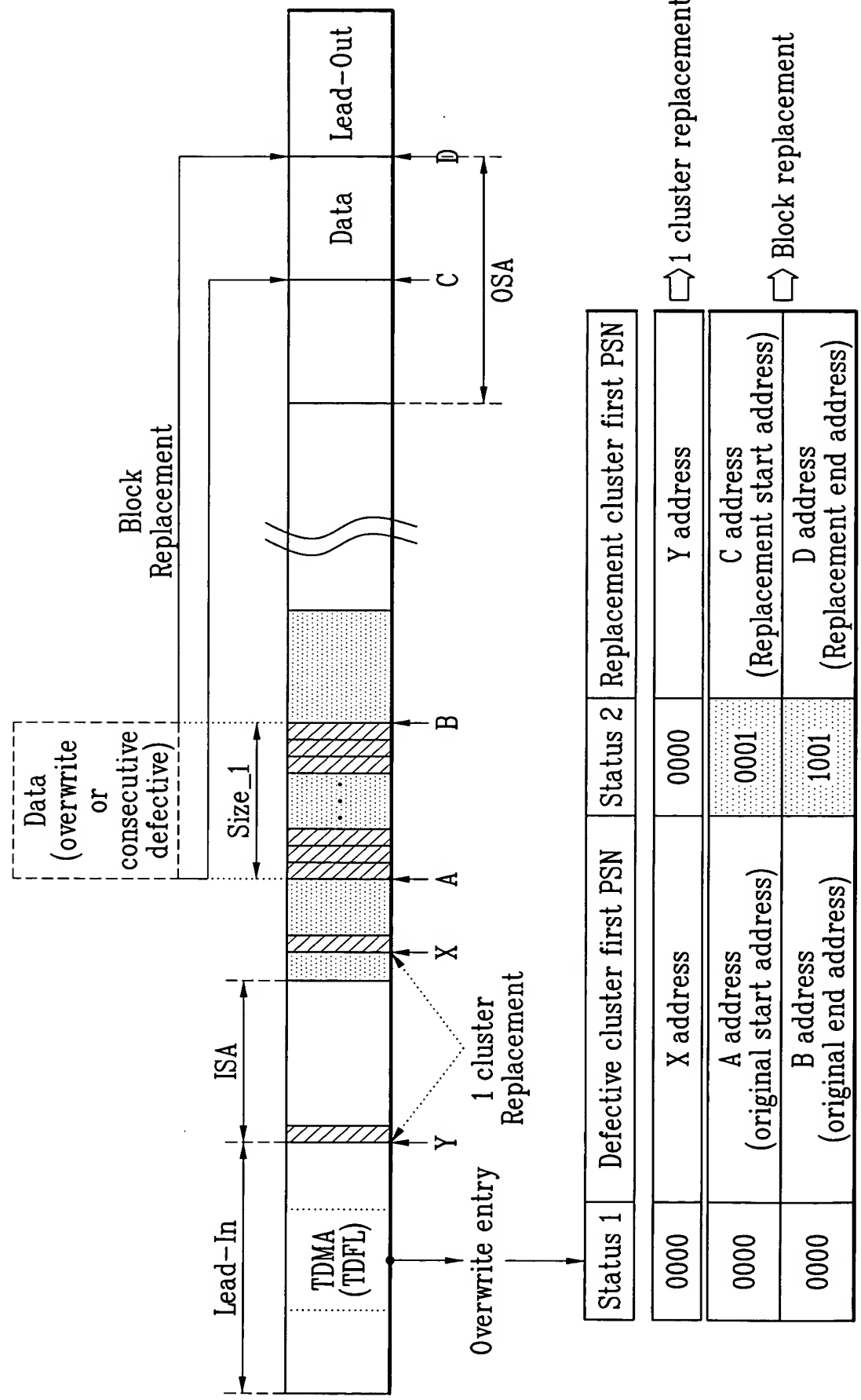
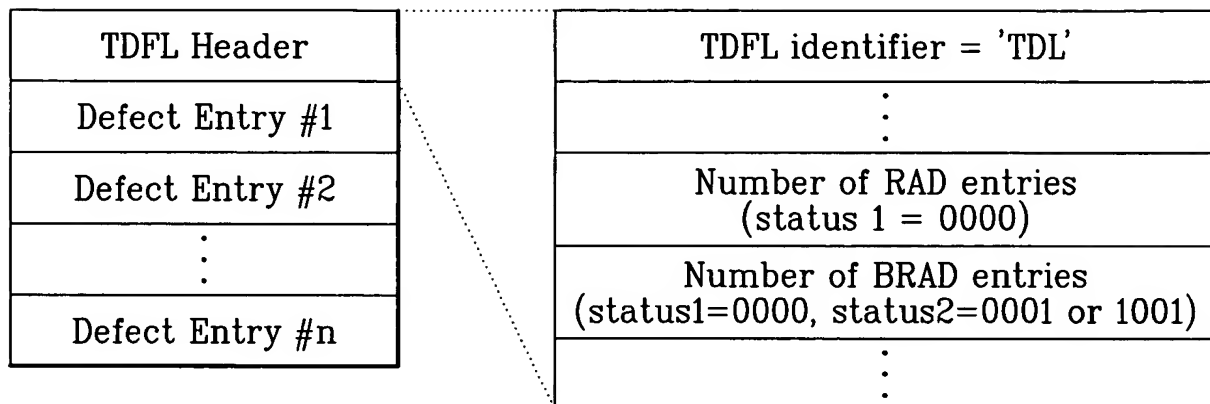


FIG. 11A



* RAD : Re- Allocation Defective cluster
BRAD : Block RAD

FIG. 11B

Entry type	Status 1	Status 2
RAD	0000	0000
BRAD	0000	0000 or 1001
NRD	0001	0000
BNRD	0001	0001 or 1001

FIG. 12

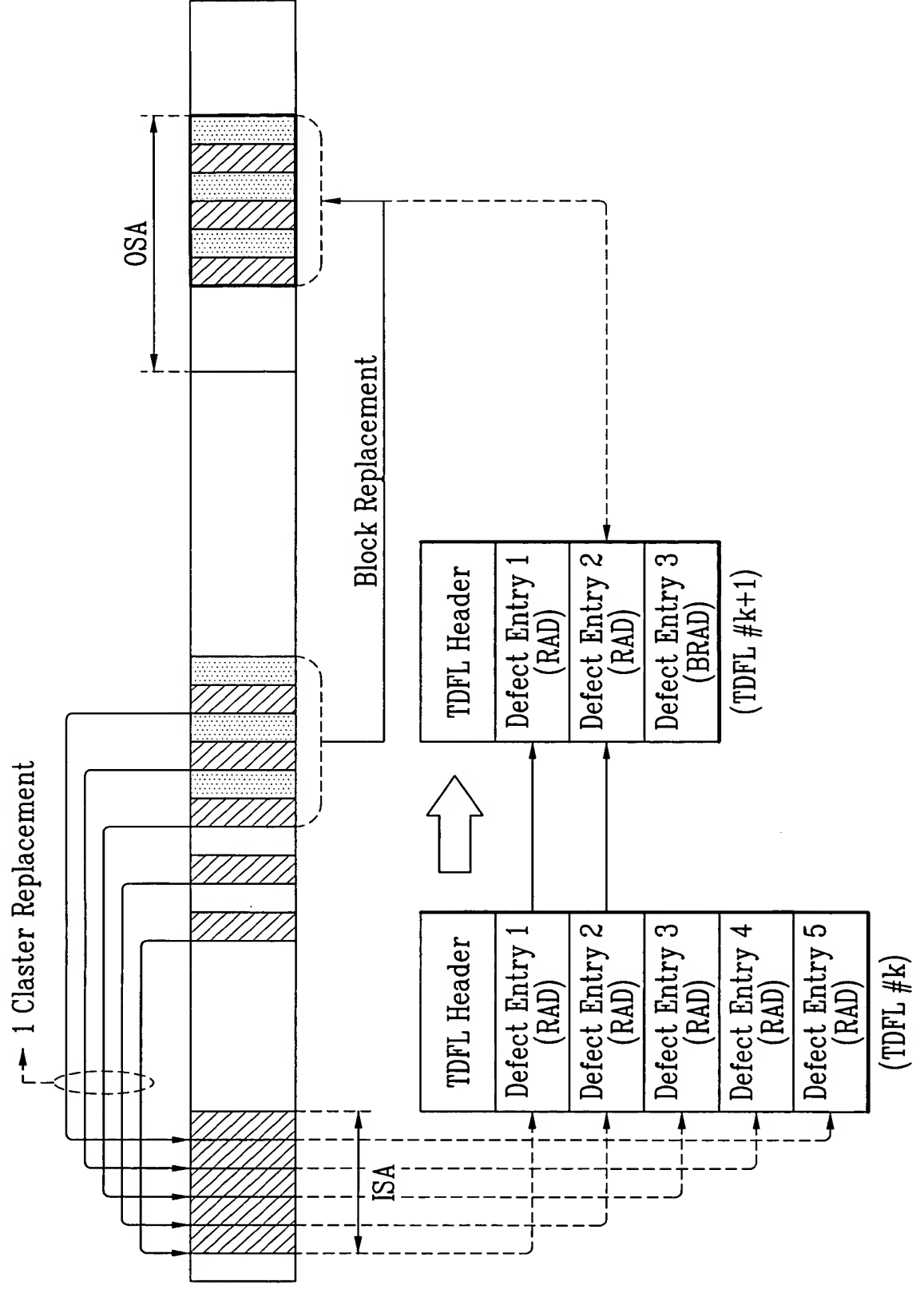


FIG. 13

